

WHAT IS CLAIMED IS:

1. A scrubbing product comprising:
a plurality of abrasive structures, the abrasive structures being
configured in a stacked arrangement;
5 a liquid absorbent substrate having a top surface and a bottom
surface, the plurality of abrasive structures being attached to the top surface; and
an attachment structure for releasably attaching the plurality of
abrasive structures together, the attachment structure permitting a top abrasive
structure to be removed from the scrubbing product by a user pulling on the top
10 abrasive structure.
2. A scrubbing product as defined in claim 1, wherein the attachment
structure holds the plurality of abrasive structures together with sufficient strength
to permit use of the scrubbing product without the plurality of abrasive structures
delaminating.
- 15 3. A scrubbing product as defined in claim 1, wherein the liquid
absorbent substrate comprises a sponge, a foam, a nonwoven material, or a tissue
laminate.
4. A scrubbing product as defined in claim 1, wherein the attachment
structure comprises a plurality of stitches, the abrasive structures being held
20 together by a thread.
5. A scrubbing product as defined in claim 4, wherein the thread is
made from an elastic material.
6. A scrubbing product as defined in claim 4, wherein the stitches are
located around a perimeter of the plurality of abrasive structures, each of the
25 abrasive structures being perforated where the stitches are located to permit
release of one abrasive structure from the remaining plurality.
7. A scrubbing product as defined in claim 4, wherein the stitches
extend through the entire scrubbing product.
8. A scrubbing product as defined in claim 4, wherein the stitches only
30 extend through the plurality of abrasive structures.
9. A scrubbing product as defined in claim 1, wherein the attachment
structure comprises hook and loop attachments between the plurality of abrasive
structures.

10. A scrubbing product as defined in claim 9, wherein the abrasive structures comprise an abrasive layer attached to a fibrous cellulosic web, the abrasive layer comprising hooks, the cellulosic web defining a surface attachable to the hooks of an adjacent abrasive structure.

5 11. A scrubbing product as defined in claim 9, wherein the abrasive structures comprise a fibrous cellulosic web attached to an abrasive layer on one side and to a loop material on an opposite side.

12. A scrubbing product as defined in claim 1, wherein the abrasive structures wrap around at least two sides of the liquid absorbent substrate.

10 13. A scrubbing product as defined in claim 12, wherein each abrasive structure forms an endless loop, the endless loop defining a perforation line that traverses across the width of the abrasive structure for permitting removal of the abrasive structure from the scrubbing product.

14. A scrubbing product as defined in claim 1, wherein the attachment structure comprises point bonded attachment points between adjacent layers of the abrasive structures.

15 15. A scrubbing product as defined in claim 14, wherein the point bonded attachment points are formed by an adhesive.

16. A scrubbing product as defined in claim 14, wherein the point bonded attachment points comprise areas where the plurality of abrasive structures are melt bonded together.

17. A scrubbing product as defined in claim 1, wherein the attachment structure comprises a plurality of apertures extending through the abrasive structures.

25 18. A scrubbing product as defined in claim 1, wherein each abrasive structure comprises an abrasive layer comprising abrasive polymeric fibers in a non-uniform distribution secured to an absorbent layer comprising a fibrous cellulosic web.

19. A scrubbing product as defined in claim 18, wherein the cellulosic web comprises an uncreped, through dried paper web.

20. A scrubbing product as defined in claim 18, wherein the absorbent layer comprises an airlaid web, a coform web, or a paper web.

21. A scrubbing product as defined in claim 18, wherein the abrasive layer comprises a meltspun web.

22. A scrubbing product as defined in claim 21, wherein the meltspun web comprises a meltblown web.

5 23. A scrubbing product as defined in claim 18, wherein the abrasive polymeric fibers have a mean diameter greater than about 40 microns.

24. A scrubbing product as defined in claim 18, wherein the abrasive layer has a basis weight of greater than about 50 gsm.

10 25. A scrubbing product as defined in claim 19, wherein the cellulosic web contains high yield fibers in an amount of at least about 5% by weight.

26. A scrubbing product as defined in claim 18, wherein the abrasive structures further contain an additive comprising a soap, a detergent, a buffering agent, an antimicrobial agent, a skin wellness agent, a lotion, a medication, a polishing agent, or mixtures thereof.

15 27. A scrubbing product as defined in claim 1, wherein the liquid absorbent substrate comprises multiple layers of a paper web.

28. A scrubbing product as defined in claim 27, wherein the paper web comprises an uncreped, through air dried web.

20 29. A scrubbing product comprising:
a substrate; and

a plurality of scrubbing layers wrapped around the substrate, each of the scrubbing layers comprising an abrasive structure including an abrasive layer adhered to a fibrous cellulosic web, wherein the scrubbing layers are configured to be sequentially removed from the scrubbing product thereby exposing an unused
25 scrubbing layer lying below the removed layer.

30. A scrubbing product as defined in claim 29, wherein the scrubbing product has a rectangular shape.

31. A scrubbing product as defined in claim 29, wherein the scrubbing product has a cylindrical shape.

30 32. A scrubbing product as defined in claim 29, wherein each scrubbing layer forms an endless loop around the substrate, each layer including a perforation line.

33. A scrubbing product as defined in claim 29, wherein the plurality of scrubbing layers are spirally wound around the substrate.

34. A scrubbing product as defined in claim 33, wherein the scrubbing layers are periodically perforated thereby defining individual abrasive structures.

5 35. A scrubbing product as defined in claim 29, further comprising an attachment structure for releasably attaching the plurality of scrubbing layers together.

36. A scrubbing product as defined in claim 35, wherein the attachment structure comprises a plurality of stitches.

10 37. A scrubbing product as defined in claim 35, wherein the attachment structure comprises hook and loop attachments between the plurality of scrubbing layers.

38. A scrubbing product as defined in claim 35, wherein the attachment structure comprises point bonded attachment points between adjacent layers of the abrasive structures.

15 39. A scrubbing product as defined in claim 38, wherein the point bonded attachment points are formed by an adhesive.

40. A scrubbing product as defined in claim 38, wherein the point bonded attachment points comprise areas where the plurality of abrasive structures are melt bonded together.

20 41. A scrubbing product as defined in claim 29, wherein the substrate comprises a plurality of paper layers.

42. A scrubbing product as defined in claim 41, wherein the paper layers comprise uncreped, through air dried sheets.

25 43. A scrubbing product as defined in claim 29, wherein the abrasive layer comprises a meltspun web.

44. A scrubbing product as defined in claim 43, wherein the meltspun web comprises a meltblown web.

30 45. A scrubbing product as defined in claim 29, wherein the abrasive polymeric fibers have a mean diameter greater than about 40 microns.

46. A scrubbing product as defined in claim 29, wherein the abrasive layer has a basis weight of greater than about 50 gsm.

47. A scrubbing product comprising:

a plurality of abrasive structures, the abrasive structures being configured in a stacked arrangement;

an attachment structure for releasably attaching the plurality of abrasive structures together, the attachment structure permitting a top abrasive structure to be removed from the scrubbing product by a user, the attachment structure comprising a plurality of stitches such that the plurality of abrasive structures are held together by a thread.

48. A scrubbing product as defined in claim 47, wherein the attachment structure holds the plurality of abrasive structures together with sufficient strength to permit use of the scrubbing product without the plurality of abrasive structures delaminating.

49. A scrubbing product as defined in claim 47, wherein the thread is made from an elastic material.

50. A scrubbing product as defined in claim 47, wherein the stitches are located around a perimeter of the plurality of abrasive structures, each of the abrasive structures being perforated where the stitches are located to permit release of one abrasive structure from the remaining plurality.

51. A scrubbing product as defined in claim 47, further comprising a liquid absorbent substrate defining a top, the plurality of abrasive structures being secured to the top of the liquid absorbent substrate.

52. A scrubbing product as defined in claim 51, wherein the liquid absorbent substrate comprises a plurality of paper plies attached together.

53. A scrubbing product as defined in claim 47, wherein each abrasive structure comprises an abrasive layer comprising abrasive polymeric fibers in a nonuniform distribution secured to an absorbent layer comprising a fibrous cellulosic web.

54. A scrubbing product as defined in claim 53, wherein the cellulosic web comprises an uncreped, through dried paper web.

55. A scrubbing product as defined in claim 53, wherein the absorbent layer comprises an airlaid web, a coform web, or a paper web.

56. A scrubbing product as defined in claim 53, wherein the abrasive layer comprises a meltspun web.

57. A scrubbing product as defined in claim 56, wherein the meltspun web comprises a meltblown web.

58. A scrubbing product as defined in claim 53, wherein the abrasive polymeric fibers have a mean diameter greater than about 40 microns.

5 59. A scrubbing product as defined in claim 53, wherein the abrasive layer has a basis weight of greater than about 50 gsm.

60. A scrubbing product as defined in claim 53, wherein the absorbent layer comprises a plurality of plies.

10 61. A scrubbing product as defined in claim 60, wherein each ply comprises a paper web.

62. A scrubbing product as defined in claim 47, further comprising a liquid absorbent substrate, the plurality of abrasive structures being attached to the liquid absorbent substrate.

15 63. A scrubbing product as defined in claim 62, wherein the liquid absorbent substrate comprises a plurality of paper webs.

64. A scrubbing product comprising:
a plurality of abrasive structures, the abrasive structures being configured in a stacked arrangement;

20 an attachment structure for releasably attaching the plurality of abrasive structures together, the attachment structure permitting a top abrasive structure to be removed from the scrubbing product by a user, the attachment structure comprising a plurality of point bonded attachment points located between adjacent layers of the abrasive structures.

25 65. A scrubbing product as defined in claim 64, wherein the point bonded attachment points are formed by an adhesive.

66. A scrubbing product as defined in claim 64, wherein the point bonded attachment points comprise areas where the plurality of abrasive structures are melt bonded together.

30 67. A scrubbing product as defined in claim 64, wherein each abrasive structure comprises an abrasive layer comprising abrasive polymeric fibers in a non-uniform distribution secured to an absorbent layer comprising a fibrous cellulosic web.

68. A scrubbing product as defined in claim 67, wherein the cellulosic web comprises an uncreped, through dried paper web.

69. A scrubbing product as defined in claim 67, wherein the absorbent layer comprises an airlaid web, a coform web, or a paper web.

5 70. A scrubbing product as defined in claim 67, wherein the abrasive layer comprises a meltspun web.

71. A scrubbing product as defined in claim 70, wherein the meltspun web comprises a meltblown web.

10 72. A scrubbing product as defined in claim 67, wherein the abrasive polymeric fibers have a mean diameter greater than about 40 microns.

73. A scrubbing product as defined in claim 67, wherein the abrasive layer has a basis weight of greater than about 50 gsm.

74. A scrubbing product as defined in claim 67, wherein the absorbent layer comprises a plurality of plies.

15 75. A scrubbing product as defined in claim 74, wherein each ply comprises a paper web.

76. A scrubbing product as defined in claim 64, further comprising a liquid absorbent substrate, the plurality of abrasive structures being attached to the liquid absorbent substrate.

20 77. A scrubbing product as defined in claim 76, wherein the liquid absorbent substrate comprises a plurality of paper webs.

78. A scrubbing product comprising:

a plurality of abrasive structures, the abrasive structures being configured in a stacked arrangement;

25 an attachment structure for releasably attaching the plurality of abrasive structures together, wherein the abrasive structure holds the plurality of abrasive structures together with sufficient strength to permit use of the scrubbing product without the plurality of abrasive structures delaminating, the attachment structure, however, permitting a top abrasive structure to be removed from the scrubbing product by a user, the attachment structure comprising hook and loop attachments located between the plurality of abrasive structures.

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79. A scrubbing product as defined in claim 78, wherein the abrasive structures comprise an abrasive layer attached to a fibrous cellulosic web, the

abrasive layer comprising hooks, the cellulosic web defining a surface attachable to the hooks of an adjacent abrasive structure.

5 80. A scrubbing product as defined in claim 78, wherein the abrasive structures comprise a fibrous cellulosic web attached to an abrasive layer on one side and to a loop material on an opposite side.

81. A scrubbing product as defined in claim 78, wherein each abrasive structure comprises an abrasive layer comprising abrasive polymeric fibers in a non-uniform distribution secured to an absorbent layer comprising a fibrous cellulosic web.

10 82. A scrubbing product as defined in claim 81, wherein the cellulosic web comprises an uncreped, through dried paper web.

83. A scrubbing product as defined in claim 81, wherein the absorbent layer comprises an airlaid web, a coform web, or a paper web.

15 84. A scrubbing product as defined in claim 81, wherein the abrasive layer comprises a meltspun web.

85. A scrubbing product as defined in claim 84, wherein the meltspun web comprises a meltblown web.

86. A scrubbing product as defined in claim 81, wherein the abrasive polymeric fibers have a mean diameter greater than about 40 microns.

20 87. A scrubbing product as defined in claim 81, wherein the abrasive layer has a basis weight of greater than about 50 gsm.

88. A scrubbing product as defined in claim 81, wherein the absorbent layer comprises a plurality of plies.

25 89. A scrubbing product as defined in claim 88, wherein each ply comprises a paper web.

90. A scrubbing product as defined in claim 78, further comprising a liquid absorbent substrate, the plurality of abrasive structures being attached to the liquid absorbent substrate.

30 91. A scrubbing product as defined in claim 90, wherein the liquid absorbent substrate comprises a plurality of paper webs.